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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY

1319: *Research, Development, Test & Evaluation, Navy*
BA 5: *Development & Demonstration (SDD)*

R-1 ITEM NOMENCLATURE

PE 0604274N: *Next Generation Jammer (NGJ)*

COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	111.777	120.602	189.919	-	189.919	337.712	344.138	347.237	351.580	Continuing	Continuing
0557: <i>Next Generation Jammer</i>	111.777	120.602	189.919	-	189.919	337.712	344.138	347.237	351.580	Continuing	Continuing

A. Mission Description and Budget Item Justification

This project develops a Next Generation Jammer (NGJ) capability and appropriate technologies required to replace the existing ALQ-99 Tactical Jamming System. NGJ is required to keep pace with advances in threat weapons systems and continuous expansion of the Airborne Electronic Attack (AEA) mission area. NGJ capabilities will address AEA capability gaps, AEA sufficiency gaps, and address ALQ-99 shortfalls in scalability, flexibility, supportability, interoperability, availability, and capability. NGJ will utilize an adaptable, modular, and open architecture philosophy to combat the increasing capability gap and enable future growth at a reduced operational and sustainment cost.

Note: NGJ was previously funded under PE 0604270N/PU 0556 EW Development. NGJ effort budgeted for \$36.006M under PE 0604270N/PU 0556 in FY 2009.

B. Program Change Summary (\$ in Millions)

	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012 Base</u>	<u>FY 2012 OCO</u>	<u>FY 2012 Total</u>
Previous President's Budget	117.481	120.602	119.891	-	119.891
Current President's Budget	111.777	120.602	189.919	-	189.919
Total Adjustments	-5.704	-	70.028	-	70.028
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-2.000	-			
• SBIR/STTR Transfer	-3.688	-			
• Program Adjustments	-	-	71.072	-	71.072
• Section 219 Reprogramming	-0.013	-	-	-	-
• Rate/Misc Adjustments	-	-	-1.044	-	-1.044
• Congressional General Reductions	-0.003	-	-	-	-
Adjustments					

Change Summary Explanation

Technical: Not applicable.

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<p>Schedule: Analysis of Alternatives (AoA), In-Process Review Defense Acquisition Board (IPR DAB), and Resources Requirements Review Board (R3B) added to schedule to provide further program detail. Milestone A moved from 4th QTR 2011 to 2nd QTR 2012. Technology Development (TD) Award moved from 1st QTR 2012 to 3rd QTR 2012 due to late award of Technology Maturation (TM) contracts in 4th QTR 2010 vice 3rd QTR 2010. Prototype Demonstration moved from 4th QTR 2012 to 3rd QTR 2014. NGJ TEMP moved from 1st QTR 2013 to 1st QTR 2014. Milestone B moved from 4th QTR 2013 to 1st QTR 2015. Engineering and Manufacturing Development (EMD) contract award moved from 1st QTR 2014 to 1st QTR 2015 because of improved program knowledge and Independent Expert Program Review recommendations. Integrated testing moved from 1st QTR 2014 to 1st QTR 2016 to permit development of test articles under EMD contract. Engineering Development Model (EDM) deliveries moved from 4th QTR 2015 to 4th QTR 2016 to support testing.</p>		

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy									DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604274N: Next Generation Jammer (NGJ)				PROJECT 0557: Next Generation Jammer			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
0557: Next Generation Jammer	111.777	120.602	189.919	-	189.919	337.712	344.138	347.237	351.580	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification											
This project develops a Next Generation Jammer (NGJ) capability and appropriate technologies required to replace the existing ALQ-99 Tactical Jamming System. NGJ is required to keep pace with advances in threat weapons systems and continuous expansion of the Airborne Electronic Attack (AEA) mission area. NGJ capabilities will address AEA capability gaps, AEA sufficiency gaps and address ALQ-99 shortfalls in scalability, flexibility, supportability, interoperability, availability and capability. NGJ will utilize an adaptable, modular, and open architecture philosophy to combat the increasing capability gap and enable future growth at a reduced operational sustainment cost.											
Note: NGJ was previously funded under PE 0604270N/PU 0556 EW Development. NGJ effort budgeted \$36.006M under PE 0604270N/PU 0556 in FY 2009.											
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2010	FY 2011	FY 2012
Title: Next Generation Jammer									107.128	118.602	189.919
Articles:									0	0	0
FY 2010 Accomplishments: Completed Material Solution Analysis phase activities and conducted NGJ technology maturation analysis/studies needed to support a Milestone A decision.											
FY 2011 Plans: Continue technology maturation analysis/studies and initiate NGJ technology development activities to reduce technological risk and determine appropriate set of technologies for use in NGJ.											
FY 2012 Plans: Complete technology maturation efforts and Milestone A decision. Continue technology development activities in support of prototype demonstration and Milestone B decision.											
Title: Analysis of Alternatives									2.849	-	-
Articles:									0		
FY 2010 Accomplishments: Completed collection and analysis of NGJ alternatives data for EA-18G and F-35. Final report completed and delivered.											
Title: Capability Development Document (CDD)									1.800	2.000	-
Articles:									0	0	

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604274N: <i>Next Generation Jammer (NGJ)</i>	PROJECT 0557: <i>Next Generation Jammer</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2010	FY 2011
<i>FY 2010 Accomplishments:</i> Analysis and refinement of NGJ technical and programmatic requirements and initiation of draft CDD.			
<i>FY 2011 Plans:</i> Finalization of CDD and initial routing through Joint Capabilities Integration Development System process for Milestone A.			
Accomplishments/Planned Programs Subtotals		111.777	120.602
C. Other Program Funding Summary (\$ in Millions) N/A			
D. Acquisition Strategy Next Generation Jammer is designated a Pre-Major Defense Acquisition Program and activity will focus on technology maturation to include technology development strategies in preparation for Milestone A in FY12.			
E. Performance Metrics To obtain sufficient technology maturation and demonstration to obtain favorable Milestone A and Milestone B decisions for continued program development.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy										DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604274N: Next Generation Jammer (NGJ)				PROJECT 0557: Next Generation Jammer					
Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Primary Hardware Development	TBD	Various:Various	-	-		165.614	Apr 2012	-		165.614	1,295.094	1,460.708	1,460.708
Primary Hardware Development	C/CPFF	ITT:Clifton, NJ	22.234	25.920	Apr 2011	-		-		-	0.000	48.154	48.154
Primary Hardware Development	C/CPFF	BAE:Nashua, NH	21.841	25.919	Apr 2011	-		-		-	0.000	47.760	47.760
Primary Hardware Development	C/CPFF	Raytheon:Goleta, CA	21.966	25.919	Apr 2011	-		-		-	0.000	47.885	47.885
Primary Hardware Development	C/CPFF	Northrop Grumman:Baltimore, MD	21.960	25.919	Apr 2011	-		-		-	0.000	47.879	47.879
Primary Hardware Development	SS/CPFF	Sparta, Inc.:Lake Forest, CA	1.245	-		-		-		-	0.000	1.245	1.245
Primary Hardware Development	SS/CPFF	Northrop Grumman Space & Mission Systems Corp.:Herndon, VA	1.765	-		-		-		-	0.000	1.765	1.765
Studies & Analysis (Non-FFRDC)	SS/CPFF	Mantech Systems Engineering Corp.:Fairfax, VA	1.571	-		-		-		-	0.000	1.571	1.571
Studies & Analysis (Non-FFRDC)	Various	Various:Various	-	1.587	Dec 2010	1.612	Dec 2011	-		1.612	0.000	3.199	3.199
Systems Engineering	WR	NAWCAD:Patuxent River, MD	4.450	4.600	Nov 2010	7.209	Nov 2011	-		7.209	27.254	43.513	
Systems Engineering	WR	NAWCWD:Pt. Mugu, CA	2.008	1.523	Nov 2010	1.545	Nov 2011	-		1.545	6.200	11.276	
Systems Engineering	WR	NSWC Crane:Crane, IN	1.500	1.523	Dec 2010	1.600	Dec 2011	-		1.600	6.200	10.823	
Systems Engineering	SS/CPFF	Johns Hopkins University Applied Physics Lab:Laurel, MD	1.200	1.500	Jan 2011	1.522	Dec 2011	-		1.522	6.400	10.622	10.622
Systems Engineering	Various	Various:Various	6.335	2.454	Dec 2010	7.173	Dec 2011	-		7.173	29.500	45.462	
Subtotal			108.075	116.864		186.275		-		186.275	1,370.648	1,781.862	

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Product Development (\$ in Millions)					FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Remarks FY11 Costs adjusted to reflect award of four FY10/11 incrementally funded TM contracts.														
Support (\$ in Millions)					FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Eng& Tech Srvc (Non FFRDC)	SS/FFP	NSMA:Arlington, VA	1.403	1.418	Dec 2010	1.434	Dec 2011	-		1.434	4.115	8.370	8.370	
Eng& Tech Srvc (Non FFRDC)	Various	Various:Various	2.199	2.220	Dec 2010	2.010	Dec 2011	-		2.010	5.064	11.493	11.493	
Subtotal			3.602	3.638		3.444		-		3.444	9.179	19.863	19.863	
Remarks FY11 Costs adjusted to further breakout anticipated contracting actions and cost categories.														
Management Services (\$ in Millions)					FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Program Management Support	WR	Various:Various	0.100	0.100	Dec 2010	0.200	Dec 2011	-		0.200	0.840	1.240		
Subtotal			0.100	0.100		0.200		-		0.200	0.840	1.240		
			Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals			111.777	120.602		189.919		-		189.919	1,380.667	1,802.965		
Remarks														

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011
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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604274N: <i>Next Generation Jammer (NGJ)</i>	PROJECT 0557: <i>Next Generation Jammer</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Next Generation Jammer</i>				
Acquisition Milestones: Milestones: Analysis of Alternatives (AoA) Report	3	2010	3	2010
Acquisition Milestones: Milestones: IPR/DAB	4	2010	4	2010
Acquisition Milestones: Milestones: Milestone A	2	2012	2	2012
Acquisition Milestones: Milestones: Milestone B	1	2015	1	2015
Systems Development: Hardware Development: Prototype Demonstration	1	2014	3	2014
Systems Development: Hardware Development: Engineering Development Model (EDM) Deliveries	4	2016	4	2016
Systems Development: Reviews: Resource Requirements Review Board (R3B)	1	2011	1	2011
Test & Evaluation: Technical Evaluation: NGJ Test & Evaluation Master Plan (TEMP)	1	2014	1	2014
Test & Evaluation: Technical Evaluation: Integrated Testing	1	2016	4	2016
Production Milestones: Contract Awards: Technology Maturation (TM) Contract Award	4	2010	4	2010
Production Milestones: Contract Awards: Technology Development (TD) Contract Award	3	2012	3	2012
Production Milestones: Contract Awards: Engineering & Manufacturing Development (EMD) Contract Award	1	2015	1	2015

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